

MACHINE SPECIFICATIONS

Description			Unit	DNM 4500	DNM 4500L	DNM 5700	DNM 5700L	DNM 6700	DNM 6700L	DNM 6700XL	
Travels	Travel distance	X axis	mm (inch)	800 (31.5)	910 (35.8)	1050 (41.3)	1300 (51.2)	1300 (51.2)	1500 (59.1)	2100 (82.7)	
		Y axis	mm (inch)	450 (17.7)		570 (22.4)		670 (26.4)			
		Z axis	mm (inch)	510 (20.1)				625 (24.6)			
	Distance from spindle nose to table top	mm (inch)	150~660 (5.9~26.0)				150~775 (5.9~30.5)				
Table	Table size	mm (inch)	1000 x 450 (39.4 x 17.7)	1050 x 450 (41.3 x 17.7)	1300 x 570 (51.2 x 22.4)	1500 x 570 (59.1 x 22.4)	1500 x 670 (59.1 x 26.4)	1600 x 670 (63.0 x 26.4)	2200 x 670 (86.6 x 26.4)		
	Table loading capacity	kg (lb)	600 (1322.8)		1000 (2204.6)		1300 (2866.0)				
	Table surface type	mm (inch)	T-SLOT (3-125(4.9) x 18(0.7) H8)		T-SLOT (4-125(4.9) x 18(0.7) H8)		T-SLOT (5-125(4.9) x 18(0.7)H8)				
Spindle	Taper	-	ISO #40								
	Max. spindle speed	Fanuc	r/min	8000 {8000*, 12000, 15000}							
		Siemens	r/min	12000 {15000}							
		Heidenhain	r/min	12000 {15000}							
		Mitsubishi	r/min	12000 {15000}							
	Max. Spindle power	Fanuc	kW (Hp)	18.5/11 (24.8/14.8) {15/11 (20.1/14.8)*, 18.5/11 (24.8/14.8), 18.5/11 (24.8/14.8)}				18.5/15 (24.8/20.1) {15/11 (20.1/14.8)*, 18.5/11 (24.8/14.8), 18.5/11 (24.8/14.8)}			
		Siemens	kW (Hp)	16.5/11 (22.1/14.8) {16.5/11 (22.1/14.8)}				21.8/16.3 (29.2/21.9) {16.5/11 (22.1/14.8)}			
		Heidenhain	kW (Hp)	17/10 (22.8/13.4) {17/10 (22.8/13.4)}				32/15 (42.9/20.1) {17/10 (22.8/13.4)}			
		Mitsubishi	kW (Hp)	18.5/11 (24.8/14.8)							
	Max. spindle torque	Fanuc	N · m (lbf-ft)	117.8 (86.9) {286 (211.1)*, 117.8 (86.9), 117.8 (86.9)}							
		Siemens	N · m (lbf-ft)	141.3 (104.3) {141.3 (104.3)}				150.1 (110.7) {141.3 (104.3)}			
		Heidenhain	N · m (lbf-ft)	108.2 (79.9) {108.2 (79.9)}				{108.2 (79.9)}			
Mitsubishi		N · m (lbf-ft)	117.8 (86.9)								
Feedrates	Rapid traverse rate	X axis	m/min (ipm)	36 (1417.3)						30 (1181.1)	
		Y axis	m/min (ipm)	36 (1417.3)						30 (1181.1)	
		Z axis	m/min (ipm)	30 (1181.1)							
Automatic Tool Changer	Type of tool shank	Tool shank	-	BT 40 {CAT 40 / DIN 40}							
		Pull stud	-	PS806 {Modified DIN / DIN 69872 #40}							
	Tool storage capa.	ea	30 {40, 60}								
	Max. tool diameter	Continous	mm (inch)	80 (3.1) {76 (3.0)}							
		Without Adjacent Tools	mm (inch)	125 (4.9)							
	Max. tool length	mm (inch)	300 (11.8)								
	Max. tool weight	kg (lb)	8 (17.6)								
	Max. tool moment	N · m (ft-lbs)	5.88 (4.3)								
	Tool selection		MEMORY RANDOM								
	Tool change time (Tool-to-tool)	sec	1.2								
Tool change time (Chip-to-chip)	sec	3.2						3.5			
Power source	Electric power supply (rated capacity)	kVA	29.5				38.1 {33.0**}		40 {35}*		
	Compressed air supply	MPa (psi)	0.54 (78.3)								
Tank capacity	Coolant tank capacity	L (gal)	310 (68.2)	285 (75.3)	310 (81.9)	390 (85.8)	390 (85.8)	470 (103.4)	520 (114.4)		
Machine Dimensions	Height	mm (inch)	2985 (117.5)				3120 (122.8)				
	Length	mm (inch)	2158 (85.0)		2413 (95.0)		2597 (102.2)		2970 (116.9)		
	Width	mm (inch)	2615 (103.0)	2701 (106.3)	3110 (122.4)	3350 (131.9)	3350 (131.9)	3650 (143.7)	4800 (189.0)		
	Weight	kg (lb)	5000 (11023.0)	5500 (12125.2)	6500 (14329.8)	7000 (15432.1)	8500 (18739.0)	9000 (19841.3)	10000 (22045.9)		
Control	NC system	-	DN Solutions Fanuc i Plus / SIEMENS S828D / HEIDENHAIN TNC620 / MITSUBISHI M80A								

* { } : Optional * 8000 r/min High torque version(FANUC only) ** Power capacity of 8000 r/min high torque and 12000 r/min spindle